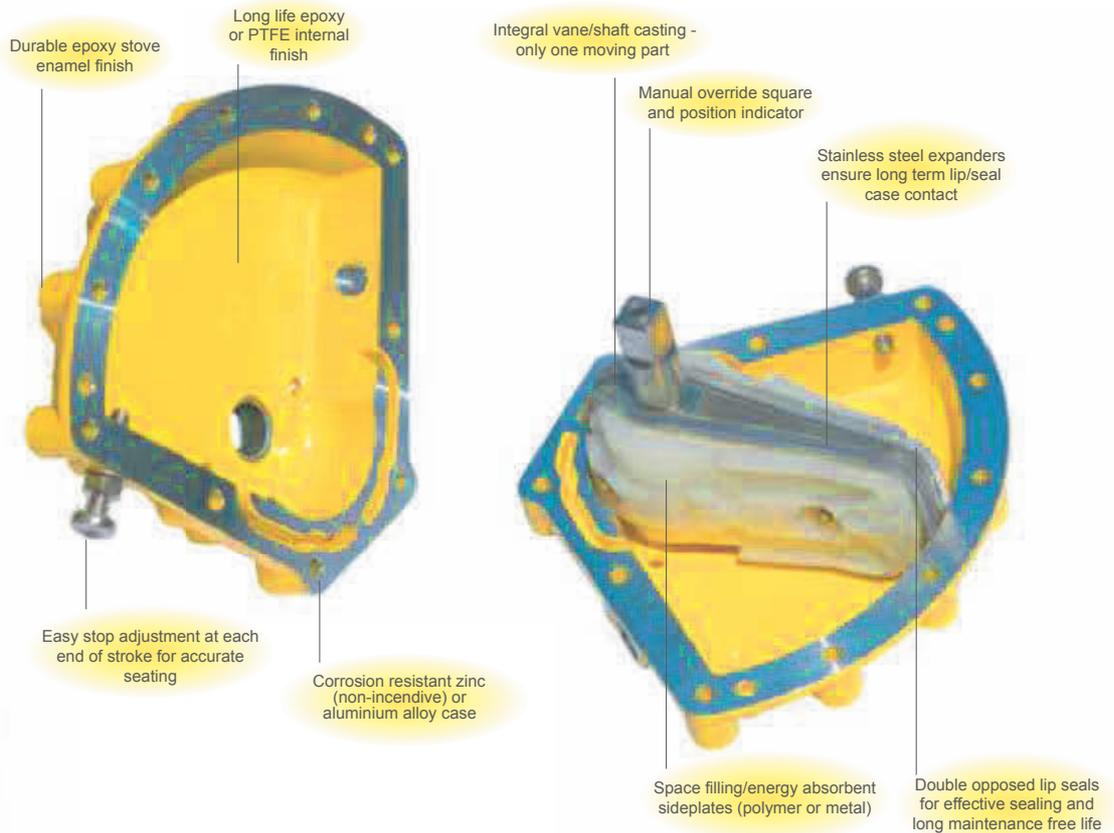


# KINETROL

Rotary Actuators





- **Single moving part**  
 Simplest and most reliable mechanism for quarter-turn rotary actuation.
- **Close couple control modules**  
 Fail-safe spring returns, limit switches, positioners and solenoid valves all close couple to the actuators.
- **No cranks or gearing**  
 No power loss or backlash - allows accurate positioning.
- **Durable corrosion resistant finish**
- **Long maintenance-free life**  
 Up to 4 million operations guaranteed.
- **Compact - space saving - efficient**  
 Best torque/size package available, fast operating speeds, best air consumption, proven design.
- **Millions of units**  
 put into trouble free service all over the world.
- **Choice of male or female output drive square - easy to interface to application**
- **Unique serial number for identification and traceability**

## Applications

Operation or positioning of ball, butterfly and plug valves, ventilation dampers and automatic doors. Uses also include movement and positioning of components during manufacture - in fact anything that needs to be turned through 90° or less, automatically or by remote control.

**For ordering codes see page 57**  
**For catalogue index see page 58**

The policy of KINETROL is one of continuous improvement. We reserve the right to alter the product as described and illustrated without notice.



Certificate No. FM22163

Kinetrol's rigorous quality program is approved to ISO 9001 ensuring that each unit is manufactured to the highest standards.

**Kinetrol modular concept easily provides the control assembly needed**

**1. Visual Indicator**

Gives visual indication of valve position as standard except models 0M0, 01, 16, 18, 20 and 30.

**2. Clear Cone Monitor**

Gives 360° and overhead position indication. Available on actuator models 03, 05, 07, 08, 09, 10, 12, 14, limit switch boxes, AP positioners, EL positioners, P3 positioners and EHD models (details page 18).

**3. I/P Controller**

4-20mA electrical signal controls main air supply to pneumatic positioner as alternative to air signal control (details page 17).

**4. AP Positioner**

3-15psi (0.2-1 bar) air signal controls main air supply to turn, stop or hold the actuator vane in proportional response to that air signal. Limit switch and angle retransmit options available (details pages 15/16).

**5. EL Electropneumatic Positioner**

A single unit gives smooth accurate control in response to a 4-20mA signal. Limit switch and angle retransmit options in same housing (details pages 13/14).

**6. P3 On/Off Positioner**

Modulation and/or two endstop positions and a mid-range setpoint anywhere within the 90° span. Easy setpoint adjustment and integral position feedback options (details page 19/20).

**7. Explosion Proof P3 On/Off Positioner**

Provides the same basic options as the P3 Positioner but in a flame proof enclosure with ATEX approval (details page 21).

**8. Universal Limit Switch Box**

Weather tight unit with up to 4 switches for remote position indication or control use. Optional switches for flame proof/explosion proof needs and high visibility Clear Cone monitor (details pages 7/8).

**9. Explosion Proof Limit Switch Box**

Provides the same basic options as the Universal Limit Switch Box but in flame proof enclosure with ATEX, FM and IEC approvals (details page 9/10).

**10. Solenoid**

Optional integral pneumatic solenoid valve for actuators. Various electrical, environmental and explosion proof requirements covered (details page 18).

**11. Actuator**

15 sizes covering torque range 0.5 Nm (5 lbf in) to 19140 Nm (168,000 lbf in). Operating air pressure range 1.4 bar (20 psi) to 7 bar (100 psi). Adjustable stops standard. Restricted travel stops and DIN/ISO versions available (details pages 27 to 41).

**12. 180° Converter**

Compact units give constant torque output through up to 200° travel (details pages 23/24).

**13. Fail-Safe Spring Return Units**

Clock type spring return gives reliable fail-safe operation with high torque output throughout spring stroke, yet has easy adjustment to suit application (details pages 3-5).

**14. Spring To Centre**

Patented spring unit to provide accurate adjustable port travel position on loss of air/signal (details page 22).

**15. ISO Adaptor**

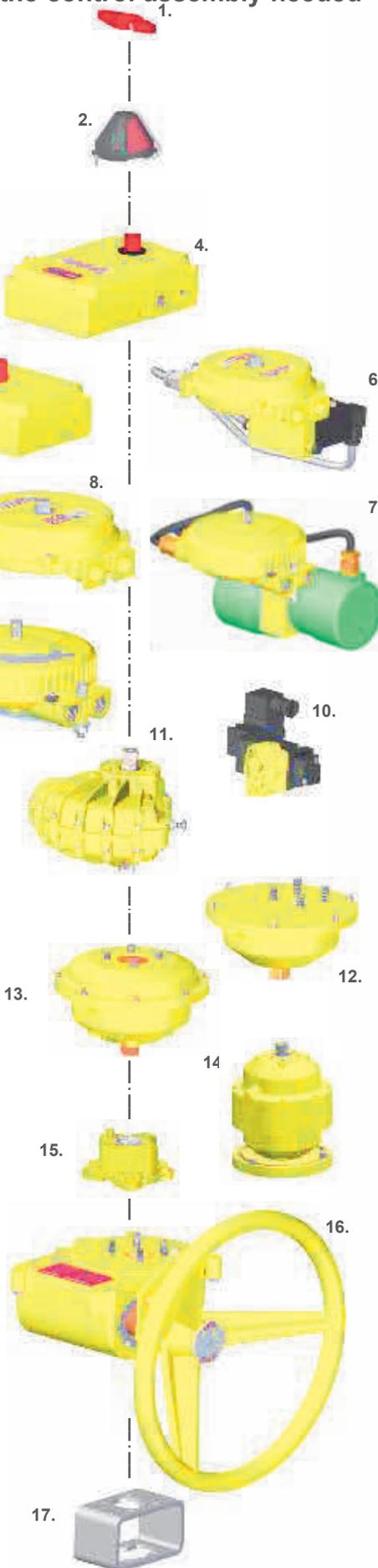
The patented ISO adaptor provides easy conversion from a Kinetrol male drive to an ISO flange interface for ultimate mounting flexibility (details page 6).

**16. Gearbox**

G geared manual override on all models from 05 to 16 inclusive (details page 44).

**17. Mounting Bracket**

A comprehensive range of brackets provides for most ball, plug and butterfly valves (details page 43).



Kinetrol Actuators, Springs and Accessories are approved up to ATEX Category 1.